## UNIVERSITY OF ILLINOIS

Department of
CHEMISTRY AND CHEMICAL ENGINEERING
URBANA

The William Albert Noyes Laboratory

Aug. 13, 1956

Dear Josh,

I have just you reparately cultures of Sh and Sh/s.

Sh = Shigella dynanteriae; Sh/s = Sh made recistant

to streptomy in by "training". Both of these are brown

Joe Bertani who received the original Sh from you.

the P/kc rent previously was freed of I ky reveral passages on Sh.

Here are the receipes for preparing bysate:

1) Confluent bysis plates (see my transduction paper
on K-12 strains for media)

To a melted ruft agan take add 106 Plke and 1-2 drops of an overnight weture of the down cells. Overlay on a thick (2450) plate of hager + the (2.5x0-3m).

Do soon as layer harden, (v5m) put in 37% much

Plagues shared be confluent at 5-7 hrs. It this time add ~4cc h broth to each plate. mulate for 2.5 hrs. further. Decort liquid, chloroform heavily, upin off levie. Reep upate is nelox with chloroform. before user, acrate chloroform anny or somere by dilution. For some strains of K-12 it way be recessary to une as much al 107 puage per plate. The tricks here are in browing when the plates are ready for the noth and in descripted are is used to make too with phase. Three in fidence in your dilet to roise this is how.

## 2) ligit lysates

To a youry wither at 5-10×107/1-e add a minipluly of 5-10 PIRC and everyh Catt to bring to 2.5×03M. Culture may heave in 3-8 hrs (or maybe so). His method may a may not who due wents this way are unreliably plut it is very easy that it works.

I will not be in CSH. We are leaving on a company trip to Colorado and New trexico & in a ferday. We atum USyst. 10.

If there is more information you need, please with me again. I mape you have good results

Caracae y

Ed umsx